FIG. 1

```
         101                102
   ┌──────────┐      ┌──────────────┐
   │ ROTARY   │      │ PUSHBUTTON   │
   │ ENCODER  │      │ SWITCH       │
   │ GROUP    │      │ GROUP        │
   └──────────┘      └──────────────┘
                                                    104
   ┌──────────────────────────────┐      ┌─────────────────┐
103│ PASSWARD CONVERSION UNIT      │◄────►│ CONVERSION TABLE│
   └──────────────────────────────┘      └─────────────────┘

       ┌──────────────────────┐
   105 │ PASSWARD             │
       │ AUTHENTICATION UNIT  │
       └──────────────────────┘
```

FIG. 2

```
PHASE A   ____┌──┐  ┌──┐  ┌──┐  ┌──┐____
              └──┘  └──┘  └──┘  └──┘

PHASE B   _____┌──┐  ┌──┐  ┌──┐  ┌──┐__
                └──┘  └──┘  └──┘  └──┘
```
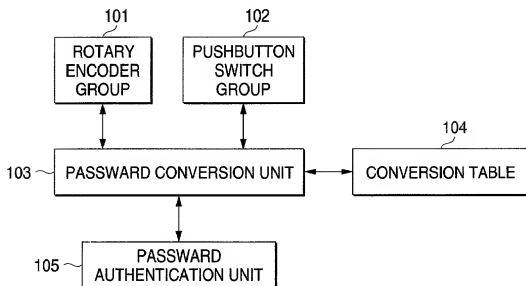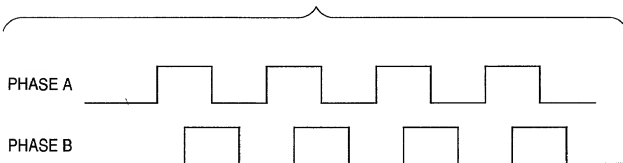
FIG. 3

PROCESS EXAMPLE 1

INPUT DEVICE	ROTATY ENCODER PROVIDED WITH A SWITCH
INPUT OF A NUMERIC VALUE	NUMBER OF CLICKS OBTAINED UP TO A PUSH ON THE SWITCH BY CLOCKWISE ROTATION FROM THE START POINT (THE CURRENT POSITION ASSUMED WHEN THE SWITCH IS PRESSED IS A NEW START POINT)
DETERMINATION OF INPUT TERMINATION	VIA TOTAL NUMBER OF TIMES THE SWITCH WAS PRESSED
INPUT CORRECTION METHOD	ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE THE STOP POSITION IS A NEW START POINT

INPUT EXAMPLE (PASSWORD: 35192)

STEP	ACTION
1	ROTATE THREE CLICKS CLOCKWISE, THEN PRESS THE SWITCH
2	ROTATE FIVE CLICKS CLOCKWISE, THEN PRESS THE SWITCH
3	ROTATE ONE CLICK CLOCKWISE, THEN PRESS THE SWITCH
4	ROTATE NINE CLICKS CLOCKWISE, THEN PRESS THE SWITCH
5	ROTATE TWO CLICKS CLOCKWISE, THEN PRESS THE SWITCH

FIG. 4

PROCESS EXAMPLE 2

INPUT DEVICE	ROTATY ENCODER PROVIDED WITH A SWITCH
INPUT OF A NUMERIC VALUE	NUMBER OF CLICKS OBTAINED BY CLOCKWISE ROTATION BEFORE ROTATING AT LEAST ONE CLICK COUNTERCLOCKWISE (THE STOP POSITION FOLLOWING COUNTERCLOCKWISE ROTATION IS A NEW START POINT)
DETERMINATION OF INPUT TERMINATION	VIA TOTAL NUMBER OF COUNTERCLOCKWISE ROTATIONS
INPUT CORRECTION METHOD	A PUSH ON THE SWITCH THE CURRENT POSITION IS A NEW START POINT

INPUT EXAMPLE (PASSWORD: 35192)

STEP	ACTION
1	ROTATE THREE CLICKS CLOCKWISE, THEN ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE
2	ROTATE FIVE CLICKS CLOCKWISE, THEN ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE
3	ROTATE ONE CLICK CLOCKWISE, THEN ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE
4	ROTATE NINE CLICKS CLOCKWISE, THEN ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE
5	ROTATE TWO CLICKS CLOCKWISE, THEN ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE

FIG. 5

PROCESS EXAMPLE 3

INPUT DEVICE	ROTARY ENCODER PROVIDED WITH A SWITCH
INPUT OF A NUMERIC VALUE	NUMBER OF CLICKS OBTAINED BY ROTATING IN DIRECTION OPPOSITE TO THE PRECEDING DIRECTION (THE REVERSAL POSITION IS A NEW START POINT)
DETERMINATION OF INPUT TERMINATION	VIA TOTAL NUMBER OF REVERSAL ROTATIONS
INPUT CORRECTION METHOD	A PUSH ON THE SWITCH THE CURRENT POSITION IS A NEW START POINT

INPUT EXAMPLE (PASSWORD: 35192)

STEP	ACTION
1	ROTATE THREE CLICKS CLOCKWISE
2	ROTATE FIVE CLICKS COUNTERCLOCKWISE
3	ROTATE ONE CLICK CLOCKWISE
4	ROTATE NINE CLICKS COUNTERCLOCKWISE
5	ROTATE TWO CLICKS CLOCKWISE, THEN ROTATE AT LEAST ONE CLICK COUNTERCLOCKWISE

PROCESS EXAMPLE 4

INPUT DEVICE	ROTATY ENCODER PROVIDED WITH A SWITCH
INPUT OF A NUMERIC VALUE	NUMBER OF CLICKS OBTAINED BY COUNTERCLOCK-WISE ROTATION SPECIFIES A DIGIT POSITION NUMBER OF CLICKS OBTAINED BY CLOCKWISE ROTATION INPUTS A NUMERIC VALUE (THE STOP POSITION FOLLOWING COUNTERCLOCKWISE ROTATION IS A NEW START POINT)
DETERMINATION OF INPUT TERMINATION	A PUSH ON THE SWITCH
INPUT CORRECTION METHOD	PREVIOUS INPUT IN A DESIRED DIGIT MAY BE CORRECTED UNTIL THE SWITCH IS PRESSED

INPUT EXAMPLE (PASSWORD: 35192)

STEP	ACTION
1	ROTATE ONE CLICK COUNTERCLOCKWISE, THEN ROTATE THREE CLICKS CLOCKWISE
2	ROTATE TWO CLICKS COUNTERCLOCKWISE, THEN ROTATE FIVE CLICKS CLOCKWISE
1	ROTATE ONE CLICK COUNTERCLOCKWISE, THEN ROTATE THREE CLICKS CLOCKWISE
2	ROTATE TWO CLICKS COUNTERCLOCKWISE, THEN ROTATE FIVE CLICKS CLOCKWISE
3	ROTATE THREE CLICKS COUNTERCLOCKWISE, THEN ROTATE ONE CLICK CLOCKWISE
4	ROTATE FOUR CLICKS COUNTERCLOCKWISE, THEN ROTATE NINE CLICKS CLOCKWISE
5	ROTATE FIVE CLICKS COUNTERCLOCKWISE, THEN ROTATE TWO CLICKS CLOCKWISE, THEN PRESS THE SWITCH

FIG. 6

FIG. 7

PROCESS EXAMPLE 5

INPUT DEVICE	ROTATY ENCODERS AS MANY AS THE NUMBER OF DIGITS AND A SWITCH
INPUT OF A NUMERIC VALUE	NUMBER OF CLICKS OBTAINED BY COUNTERCLOCKWISE ROTATION USING A ROTARY ENCODER FOR EACH DIGIT (NUMBER OF CLICKS OBTAINED BY COUNTERCLOCKWISE ROTATION IS SUBTRACTED)
DETERMINATION OF INPUT TERMINATION	A PUSH ON THE SWITCH
INPUT CORRECTION METHOD	PREVIOUS INPUT IN A DESIRED DIGIT MAY BE CORRECTED UNTIL THE SWITCH IS PRESSED

INPUT EXAMPLE (PASSWORD: 35192)

STEP	ACTION
1	ROTATE THE ROTARY ENCODER FOR THE FIRST DIGIT THREE CLICKS CLOCKWISE
2	ROTATE THE ROTARY ENCODER FOR THE SECOND DIGIT FIVE CLICKS CLOCKWISE
3	ROTATE THE ROTARY ENCODER FOR THE THIRD DIGIT ONE CLICK CLOCKWISE
4	ROTATE THE ROTARY ENCODER FOR THE FOURTH DIGIT NINE CLICKS CLOCKWISE
5	ROTATE THE ROTARY ENCODER FOR THE FIFTH DIGIT TWO CLICKS CLOCKWISE, THEN PRESS THE SWITCH